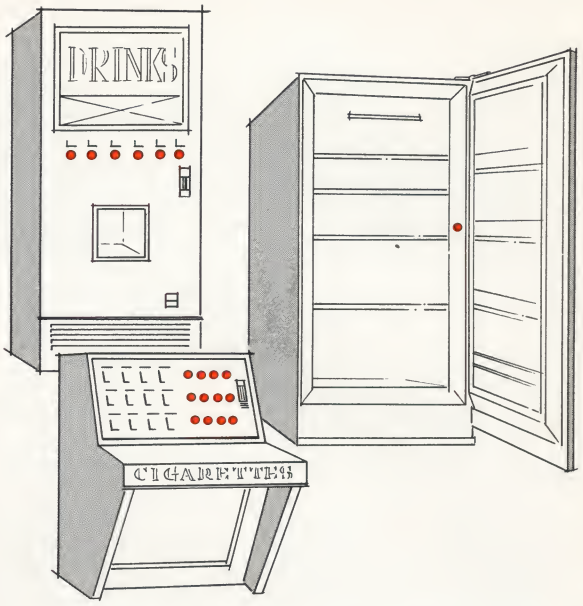
MICRO SWITCH "DM"

Snap-in Panel Mount General Purpose Switches

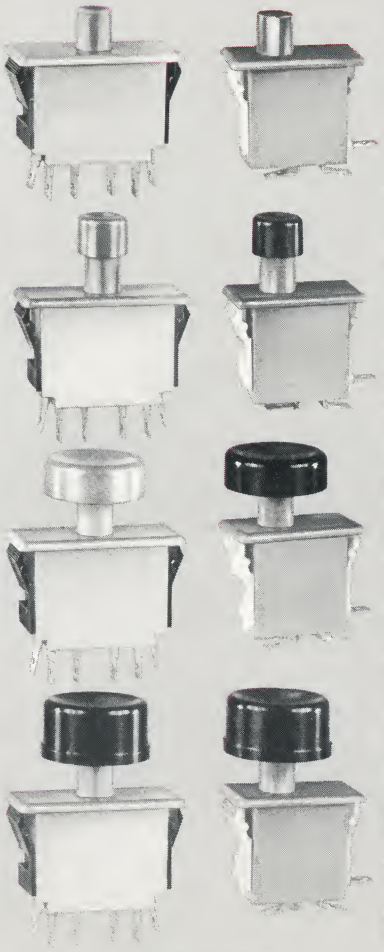
for

Data Processing Equipment
Business Machines
Vending Machines
Testing Devices
Photographic Equipment
Appliances

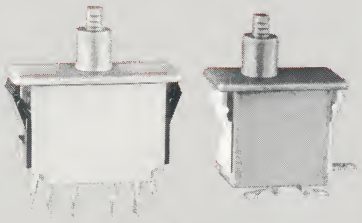


You add a significant measure of style, dependability and production economy to your product when you specify MICRO SWITCH "DM" switches.

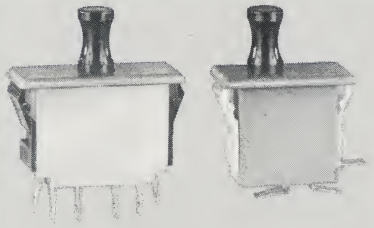
Choice of concave buttons for manual operation; convex plungers for mechanical operation. Available with single-pole double-throw or double-pole double-throw circuitry, momentary or maintained switching action. Rugged construction with corrosion-resistant plunger and case; high electrical capacity - UL and CSA listed at 10 amps., 125 or 250 vac. ⅓ HP, 125 or 250 vac.; quick connect terminals and easy snap-in mounting.



Four button styles in red or black



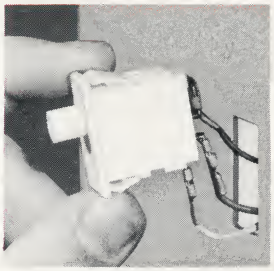
Available without button



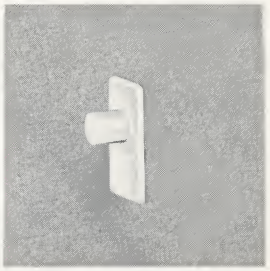
Push-pull action

For mechanical limit or interlock

Easy Installation



Snaps securely in place without tools. Quick connect terminals.



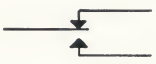
Neat panel appearance. Adapts to panel thickness of .045 to .100 inch.

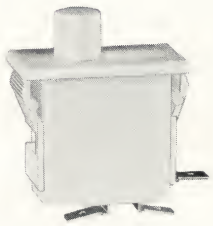
MICRO SWITCH
FREEPORT, ILLINOIS, U.S.A.
A DIVISION OF HONEYWELL

IN CANADA: HONEYWELL CONTROLS LIMITED, TORONTO 17, ONTARIO

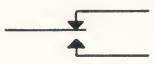
Mechanically Actuated

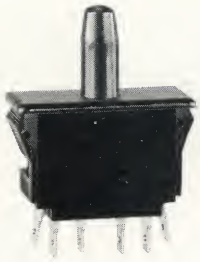
1DM1
(SPDT)



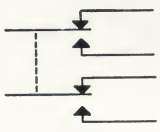


1DM21
(SPDT)





2DM4
(DPDT)



All single-pole double-throw "DM" switches have the same mounting dimensions behind the panel as the 1DM1 shown.

All double-pole double-throw "DM" switches have the same mounting dimensions as the 2DM4 shown.

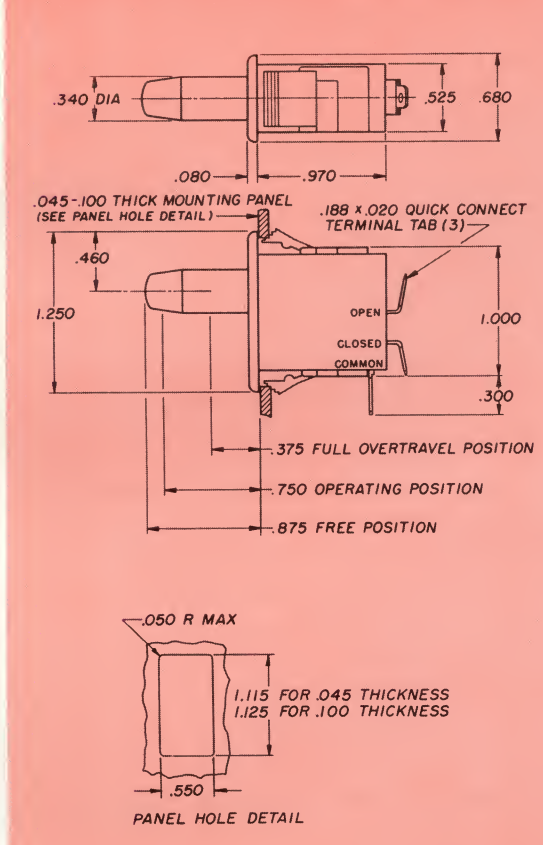
Switches on this page are expressly designed for mechanical actuation and have convex tipped plungers. Typical applications are door-operated light switch on appliances and as interlocks on doors and drawers. Single-pole double-throw or double-pole double-throw contact arrangements are standard in all the "DM" switches listed in this data sheet. Operating forces – SPDT 15 oz. max., DPDT 24 oz. max. Special application requirements should be referred to the nearest MICRO SWITCH Branch Office.

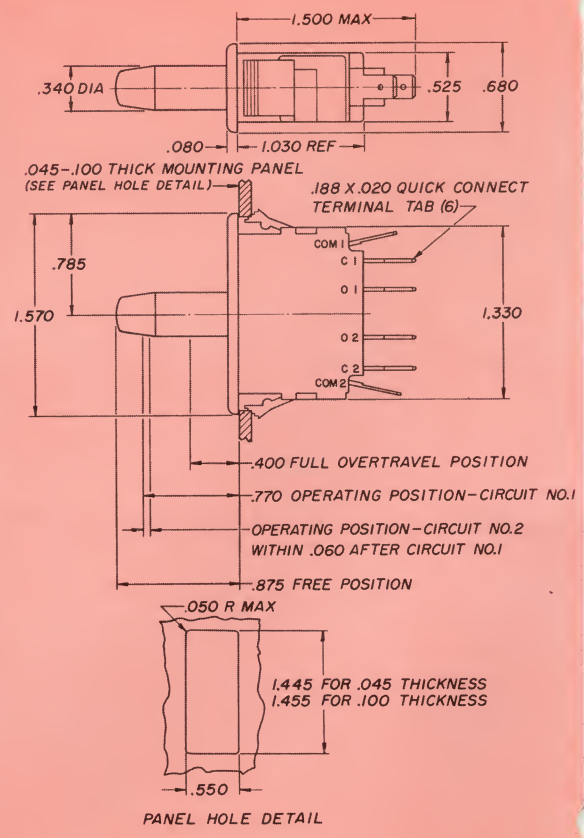
The 1DM21 switch is a SPDT design with a short plunger which gives a .45 inch free position from the mounting surface as compared to the .875 inch free position for the 1DM1 listing.

Characteristics	1DM1	1DM21	2DM4
Overtravel	.375 in. min.	.235 in. min.	.250 in. min.
Operating Force	15 oz. max.	15 oz. max.	24 oz. max.
Release Force	3 oz. min.	3 oz. min.	6 oz. min.
Differential Travel	.045 in. max.	.045 in. max.	.045 in. max.*

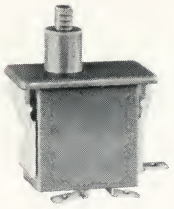
*Characteristic applies to each circuit but the two circuits of the 2DM4 do not operate simultaneously.

Mounting Dimensions

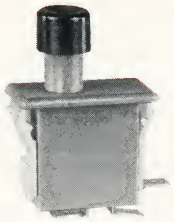




Manually Actuated

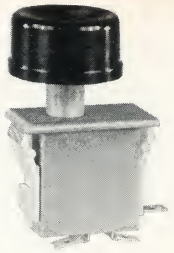


3DM1 (SPDT)



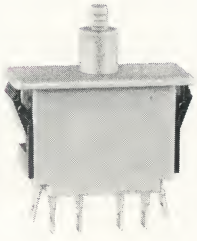
13DM1-A1

13DM1-B1

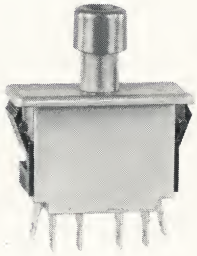


13DM1-C1

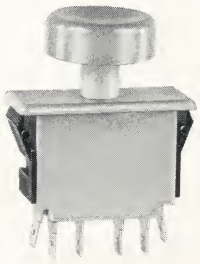
Switches on this page are designed expressly for manual actuation and have concave tipped push-button actuators. The 3 styles of red or black pushbuttons as well as the 2 basic switch modules may be purchased separately or assembled. The basic switch units, 3DM1 and 4DM1, will take any style button which fits the plunger shaft of the switch. MOUNTING DIMENSIONS: 3DM1 is the same behind the panel as the 1DM1 and the 4DM1 is the same behind the panel as the 2DM4.



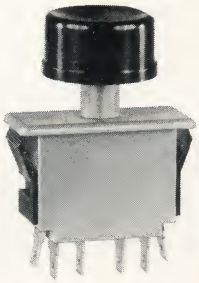
4DM1 (DPDT)



14DM1-A2

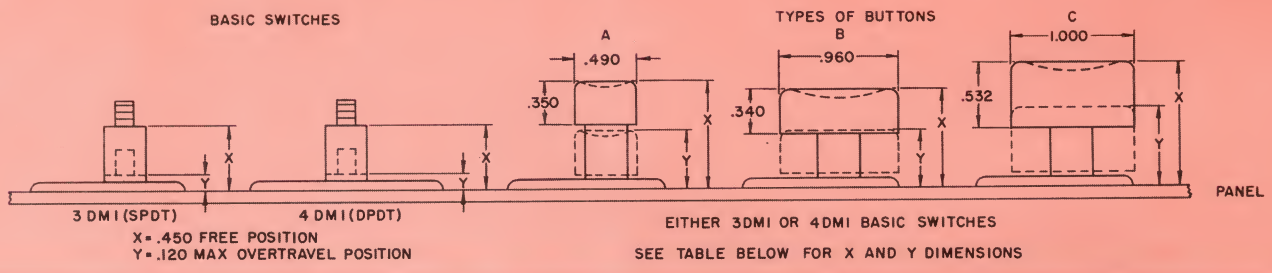


14DM1-B2



14DM1-C1

Dimensions in front of panel

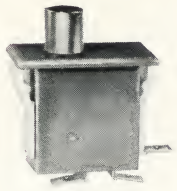


Catalog Listings

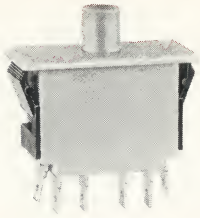
Basic Switch and Button	Basic Switch Only †	Button Only	Button Style	Button Color	Free Position *X (inches)	Max Over-travel Position *Y (inches)
13DM1-A1	3DM1	31PA1	A	Black	.80	.485
13DM1-A2	3DM1	31PA2	A	Red	.80	.485
13DM1-B1	3DM1	31PA3	B	Black	.79	.475
13DM1-B2	3DM1	31PA4	B	Red	.79	.475
13DM1-C1	3DM1	31PA5	C	Black	.98	.672
13DM1-C2	3DM1	31PA6	C	Red	.98	.672
13DM1-B3	3DM1	31PA7	B	Green	.79	.475
14DM1-A1	4DM1	31PA1	A	Black	.80	.485
14DM1-A2	4DM1	31PA2	A	Red	.80	.485
14DM1-B1	4DM1	31PA3	B	Black	.79	.475
14DM1-B2	4DM1	31PA4	B	Red	.79	.475
14DM1-C1	4DM1	31PA5	C	Black	.98	.672
14DM1-C2	4DM1	31PA6	C	Red	.98	.672
———	4DM1	31PA7	B	Green	.79	.475

†3DM1 is single-pole double-throw and the 4DM1 is double-pole double-throw.
*Dimensions shown are for reference only and are subject to change without notice.

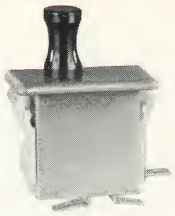
Manually Actuated



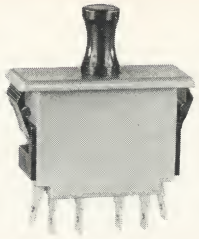
1DM18 (SPDT)



2DM6 (DPDT)



1DM301 (SPDT)



2 DM 301 (DPDT)

Short Plunger

Shorter integral plunger with a concave tip. Choice of red or black plungers. Operating forces – SPDT 15 oz. max., DPDT 24 oz. max. For mounting dimensions behind panel see 1DM1 for SPDT or 2DM4 for DPDT.

Catalog Listing	Circuitry	Button Color	Free Position X(in)	Max. over-travel position Y(in)
1DM18	SPDT	Black	.45	.120
1DM19	SPDT	Red	.45	.120
2DM5	DPDT	Black	.45	.120
2DM6	DPDT	Red	.45	.120

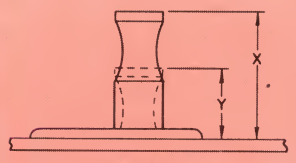
1DM18

See table above for X and Y dimensions on buttons. Dimensions shown are for reference only and are subject to change without notice.

Alternate Action Push-Pull

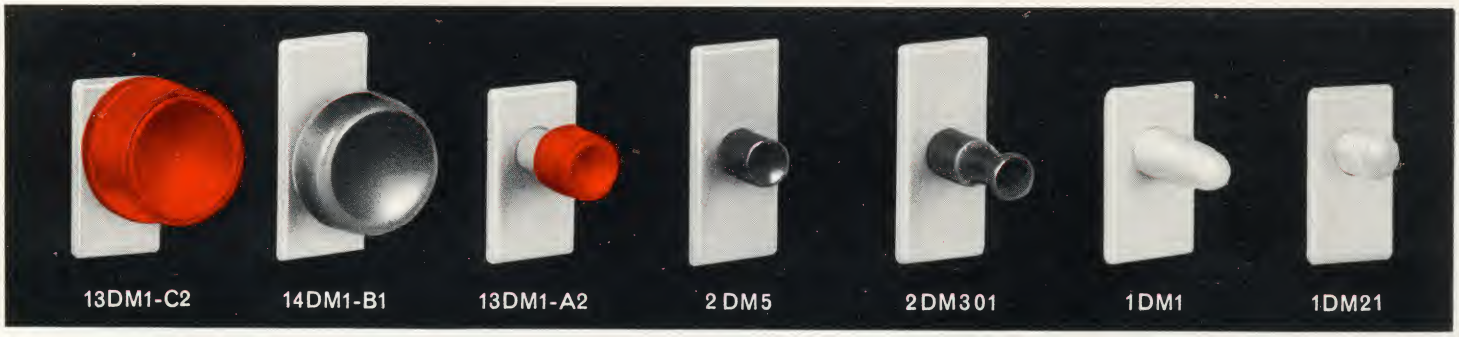
Switch closes when plunger is pushed in and remains closed until pulled out. Black plungers only. Operating forces – SPDT 15 oz. max., DPDT 24 oz. max. For mounting dimensions behind panel see 1DM1 for SPDT or 2DM4 for DPDT.

Catalog Listing	Circuitry	Free Position X(in)	Max. over-travel position Y(in)
1DM301	SPDT	.960	.625
2DM301	DPDT	.950	.625



1DM301

See table above for X and Y dimensions on buttons. Dimensions shown are for reference only and are subject to change without notice.



PRICES Indicated are "NET EACH"

Catalog Listing	1-49	50-99	100-499	500-999
1DM1	$ .90	$ .657	$ .567	$ .513
1DM18	.93	.679	.586	.530
1DM19	.93	.679	.586	.530
1DM21	.95	.694	.599	.542
1DM301	.87	.635	.548	.496
2DM4	1.39	1.015	.876	.792
2DM6	1.48	1.080	.932	.844
2DM301	1.35	.986	.851	.770
3DM1	.89	.650	.561	.507
4DM1	1.47	1.073	.926	.838
13DM1-A1	1.08	.788	.680	.616
13DM1-A2	1.08	.788	.680	.616
13DM1-B1	1.03	.752	.649	.587
13DM1-B2	1.03	.752	.649	.587
13DM1-C1	1.13	.825	.712	.644

Catalog Listing	1-49	50-99	100-499	500-999
13DM1-C2	$1.13	$ .825	$ .712	$ .644
13DM1-B3	1.03	.752	.649	.587
14DM1-A1	1.66	1.212	1.046	.946
14DM1-A2	1.66	1.212	1.046	.946
14DM1-B1	1.60	1.168	1.008	.912
14DM1-B2	1.60	1.168	1.008	.912
14DM1-C1	1.70	1.241	1.071	.969
14DM1-C2	1.70	1.241	1.071	.969
31PA1	.15	.110	.095	.086
31PA2	.15	.110	.095	.086
31PA3	.10	.073	.063	.057
31PA4	.10	.073	.063	.057
31PA5	.20	.146	.126	.114
31PA6	.20	.146	.126	.114
31PA7	.10	.073	.063	.057

Prices effective April 26, 1965, F. O. B. Freeport, Illinois, and are subject to change without notice. Switches in these quantities can be purchased through your Authorized Distributor (see the Yellow Pages). For greater quantities, contact the nearest MICRO SWITCH Branch Office.

FORM 84 - 491G WH - 12 - 5 PRINTED IN U.S.A.

HONEYWELL

MICRO SWITCH

FREEPORT, ILLINOIS, U.S.A.

A DIVISION OF HONEYWELL

IN CANADA: HONEYWELL CONTROLS LIMITED, TORONTO 17, ONTARIO